Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L8	1	inter-pack and packets	USPAT	OR	ON	2005/02/01 15:08
S1	134	latency same transmit$4 adj packets	USPAT	OR	ON	2005/02/01 15:06
S2	29	S1 and (NACK or acknowledgment)	USPAT	OR	ON	2004/08/07 16:23
S3	2	S2 and smooth$4 same (latency or delay)	USPAT	OR	ON	2004/08/07 16:26
S4	1418	round adj trip adj delay	USPAT	OR	ON	2004/08/07 16:26
S5	229	S4 and latency	USPAT	OR	ON	2004/08/07 16:26
S6	5	S5 and (acknowdgment or NACK)	USPAT	OR	ON	2004/08/07 16:26
S7	2	S6 and calculate$4	USPAT	OR	ON	2004/08/07 16:27
S8	2	S7 and packets	USPAT	OR	ON	2004/08/07 16:29
S9	0	S7 and smooth$4	USPAT	OR	ON	2004/08/07 16:30
S10	6542	smooth$4 same (latency or delay)	USPAT	OR	ON	2004/08/07 16:30
S11	82	S10 and round adj trip adj delay	USPAT	OR	ON	2004/08/07 16:30
S12	32	S11 and (acknowledgment or NACK)	USPAT	OR	ON	2004/08/07 16:31
S13	3	S12 and packets adj retransmiss$4	USPAT	OR	ON	2004/08/07 16:34
S14	27	S12 and calculat$4	USPAT	OR	ON	2004/08/07 16:35
S15	1	S14 and inter-packet	USPAT	OR	ON	2004/08/07 16:35

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1 **Control issues to improve visual control of motion: applications in ac tracking of moving targets**
Barreto, J.P.; Batista, J.; Araujo, H.; Almeida, A.T.;
Advanced Motion Control, 2000. Proceedings. 6th International Workshop on ,
March-1 April 2000
Pages:13 - 18

[Abstract]   [PDF Full-Text (512 KB)]   **IEEE CNF**

2 **Control issues to improve visual control of motion: applications in ac tracking of moving targets**
Barreto, J.P.; Batista, J.; Araujo, H.; Almeida, A.T.;
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3 **Energy efficiency through burstiness**
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4 **A system for tracking changes in the mid-latency evoked potential during anesthesia**
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Heitger, M.H.; Jones, R.D.; Anderson, T.J.;
Neural Engineering, 2003. Conference Proceedings. First International IEEE EM
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Eirc Hsiao-Kuang Wu; Hsu-Te Lai; Meng-feng Tsai; Cheng-Fu Chou;
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Dey, J.K.; Sen, S.; Kurose, J.F.; Towsley, D.; Salehi, J.D.;
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Accardo, A.P.; Peniero, S.; Perissutti, P.;
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11 **A study on path re-routing algorithms at the MPLS-based hierarchic mobile IP network**
Tai Won Um; Jun Kyun Choi;
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Wireless Communications and Networking Conference, 1999. WCNC. 1999
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Multimedia Computing and Systems, 1999. IEEE International Conference
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Sen, S.; Rexford, J.; Towsley, D.;
INFOCOM '99. Eighteenth Annual Joint Conference of the IEEE Computer and
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Pages:1310 - 1319 vol.3

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Saparilla, D.; Ross, K.W.; Reisslein, M.;
INFOCOM '99. Eighteenth Annual Joint Conference of the IEEE Computer and
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1 Clock synchronization with faults and recoveries (extended abstract)   ▬

Boaz Barak, Shai Halevi, Amir Herzberg, Dalit Naor
July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**

Full text available: 📄 pdf(993.57 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We present a convergence-function based clock synchronization algorithm, which is simple, efficient and fault-tolerant. The algorithm is tolerant of failures and allows recoveries, as long as less than a third of the processors are faulty 'at the same time'. Arbitrary (Byzantine) faults are tolerated, without requiring awareness of failure or recovery. In contrast, previous clock synchronization algorithms limited the total number of faults throughout the execution, which is not realistic, ...

Keywords: clock synchronization, mobile adversary, proactive systems

2 Improving round-trip time estimates in reliable transport protocols   ▬

Phil Karn, Craig Partridge
November 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 4

Full text available: 📄 pdf(704.46 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Keywords: round-trip times, transport protocols

3 Improving round-trip time estimates in reliable transport protocols   ▬

P. Karn, C. Partridge
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology,**
Volume 17 Issue 5

Full text available: 📄 pdf(624.32 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As a reliable, end-to-end transport protocol, the ARPA Transmission Control Protocol (TCP) uses positive acknowledgements and retransmission to guarantee delivery. TCP implementations are expected to measure and adapt to changing network propagation delays so that its retransmission behavior balances user throughput and network efficiency.

However, TCP suffers from a problem we call retransmission ambiguity: when an acknowledgement arrives for a segment that has been retran ...

4   <u>Improving round-trip time estimates in reliable transport protocols</u>   ▬

Phil Karn, Craig Partridge
January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1
Full text available: 🔗 <u>pdf(555.63 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

As a reliable, end-to-end transport protocol, the ARPA Transmission Control Protocol (TCP) uses positive acknowledgements and retransmission to guarantee delivery. TCP implementations are expected to measure and adapt to changing network propagation delays so that its retransmission behavior balances user throughput and network efficiency. However, TCP suffers from a problem we call *retransmission ambiguity*: when an acknowledgment arrives for a segment that has been retransmitted, there i ...

5   <u>Designing BGP-based outbound traffic engineering techniques for stub ASes</u>   ▬

Steve Uhlig, Olivier Bonaventure
October 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 5
Full text available: 🔗 <u>pdf(584.54 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Today, most multi-connected autonomous systems (AS) need to control the flow of their interdomain traffic for both performance and economical reasons. This is usually done by manually tweaking the BGP configurations of the routers on an error-prone trial-and-error basis. In this paper, we demonstrate that designing systematic BGP-based traffic engineering techniques for stub ASes are possible. Our approach to solve this traffic engineering problem is to allow the network operator to define objec ...

Keywords: BGP, interdomain traffic engineering, multiple-objectives optimization

6   <u>Roaming and handoff management: An end-to-end multi-path smooth handoff scheme</u> ▬
<u>for stream media</u>

Yi Pan, Meejeong Lee, Jaime Bae Kim, Tatsuya Suda
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**
Full text available: 🔗 <u>pdf(481.45 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In the near future, wide variety of wireless networks will be merged into the Internet and allow users to continue their application with higher degree of mobility. In such environment, multimedia applications, which require smooth rate transmission, will become more popular. There are two main reasons that cause difficulties in the smooth transmission of stream media application when a user roams around the wireless mobile networks: 1) packets may get lost due to the re-routing caused by handof ...

Keywords: congestion avoidance, handoff, multi-layer video encoder, slow start

7   <u>Wave and equation based rate control using multicast round trip time</u>   ▬

Michael Luby, Vivek K. Goyal, Simon Skaria, Gavin B. Horn
August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4
Full text available: 🔗 <u>pdf(2.72 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper introduces Wave and Equation Based Rate Control (WEBRC), the first multiple

rate multicast congestion control protocol to be equation based. The equation-based approach enforces fairness to TCP with the benefit that fluctuations in the flow rate are small in comparison to TCP.This paper also introduces the multicast round trip time (MRTT), a multicast analogue of the unicast round trip time (RTT). The MRTT is fundamental to the equation-based protocol that each receiver uses to adjust ...

Keywords: TCP-friendliness, congestion control, multicast, multiple-rate

8 Run length control using parallel spectral method

Kimmo E. E. Raatikainen
December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available: pdf(681.48 KB)   Additional Information: full citation, references, index terms

9 Streaming 2: Server-based smoothing of variable bit-rate streams

Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(851.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce an algorithm that uses buffer space available at the server for smoothing disk transfers of variable bit-rate streams. Previous smoothing techniques prefetched stream data into the client buffer space, instead. However, emergence of personal computing devices with widely different hardware configurations means that we should not always assume abundance of resources at the client side. The new algorithm is shown to have optimal smoothing effect under the specified constraints. We inc ...

10 Retransmission schemes for streaming internet multimedia: evaluation model and performance analysis

Dmitri Loguinov, Hayder Radha
April 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 2

Full text available: pdf(1.49 MB)   Additional Information: full citation, abstract, references, index terms

This paper presents a trace-driven simulation study of two classes of retransmission timeout (RTO) estimators in the context of real-time streaming over the Internet. We explore the viability of employing retransmission timeouts in NACK-based (i.e., rate-based) streaming applications to support multiple retransmission attempts per lost packet. The first part of our simulation is based on trace data collected during a number of real-time streaming tests between dialup clients in all 50 states in ...

11 On the nonstationarity of Internet traffic

Jin Cao, William S. Cleveland, Dong Lin, Don X. Sun
June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 29 Issue 1

Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings

Traffic variables on an uncongested Internet wire exhibit a pervasive nonstationarity. As the rate of new TCP connections increases, arrival processes (packet and connection) tend locally toward Poisson, and time series variables (packet sizes, transferred file sizes, and connection round-trip times) tend locally toward independent. The cause of the nonstationarity is superposition: the intermingling of sequences of connections between different source-destination pairs, and the intermingling of ...

12 Equation-based congestion control for unicast applications

Sally Floyd, Mark Handley, Jitendra Padhye, Jörg Widmer
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication,** Volume 30 Issue 4

Full text available: pdf(557.71 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a mechanism for equation-based congestion control for unicast traffic. Most best-effort traffic in the current Internet is well-served by the dominant transport protocol, TCP. However, traffic such as best-effort unicast streaming multimedia could find use for a TCP-friendly congestion control mechanism that refrains from reducing the sending rate in half in response to a single packet drop. With our mechanism, the sender explicitly adjusts its sending rate as a function ...

13 Dynamic behavior of slowly-responsive congestion control algorithms

Deepak Bansal, Hari Balakrishnan, Sally Floyd, Scott Shenker
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications,** Volume 31 Issue 4
Full text available: pdf(249.78 KB)   Additional Information: full citation, references, citings, index terms

14 Network behavior: TCP Nice: a mechanism for background transfers

Arun Venkataramani, Ravi Kokku, Mike Dahlin
December 2002 **ACM SIGOPS Operating Systems Review,** Volume 36 Issue SI

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references

Many distributed applications can make use of large *background transfers*--transfers of data that humans are not waiting for--to improve availability, reliability, latency or consistency. However, given the rapid fluctuations of available network bandwidth and changing resource costs due to technology trends, hand tuning the aggressiveness of background transfers risks (1) complicating applications, (2) being too aggressive and interfering with other applications, and (3) being too timid a ...

15 An integrated congestion management architecture for Internet hosts

Hari Balakrishnan, Hariharan S. Rahul, Srinivasan Seshan
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication,** Volume 29 Issue 4

Full text available: pdf(1.61 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a novel framework for managing network congestion from an end-to-end perspective. Our work is motivated by trends in traffic patterns that threaten the long-term stability of the Internet. These trends include the use of multiple independent concurrent flows by Web applications and the increasing use of transport protocols and applications that do not adapt to congestion. We present an end-system architecture centered around a Congestion Manager (CM) that ensures proper conge ...

16 An adaptive virtual queue (AVQ) algorithm for active queue management

Srisankar S. Kunniyur, R. Srikant
April 2004 **IEEE/ACM Transactions on Networking (TON),** Volume 12 Issue 2
Full text available: pdf(729.12 KB)   Additional Information: full citation, abstract, references, index terms

Virtual queue-based marking schemes have been recently proposed for Active Queue

Management (AQM) in Internet routers. We consider a particular scheme, which we call the Adaptive Virtual Queue (AVQ), and study its following properties: its stability in the presence of feedback delays, its ability to maintain small queue lengths, and its robustness in the presence of extremely short flows (the so-called web mice). Using a linearized model of the system dynamics, we present a simple rule to design ...

Keywords: ECN marking, active queue management (AQM), internet congestion control

17 The effects of asymmetry on TCP performance

Hari Balakrishnan, Randy H. Katz, Venkata N. Padmanbhan
October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Full text available: pdf(382.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we study the effects of network asymmetry on end-to-end TCP performance and suggest techniques to improve it. The networks investigated in this study include a wireless cable modem network and a packet radio network, both of which can form an important part of a mobile ad hoc network. In recent literature (e.g., [18]), asymmetry has been considered in terms of a mismatch in bandwidths in the two directions of a data transfer. We generalize this notion of bandwidth asymmetry t ...

18 A round trip to B-splines via de Casteljau

Hartmut Prautzsch
July 1989 **ACM Transactions on Graphics (TOG)**, Volume 8 Issue 3

Full text available: pdf(610.84 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

B-splines are constructed from Bézier curves solely using de Casteljau's construction. Divided differences are not being used, nor is Mansfield's recurrence formula presupposed. Yet, it is shown how to differentiate, subdivide, and evaluate a B-spline. These results are derived from the corresponding techniques of Bézier curves.

19 Understanding TCP vegas: a duality model

Steven H. Low, Larry Peterson, Limin Wang
June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 29 Issue 1
Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings

This paper presents a model of the TCP Vegas congestion control mechanism as a distributed optimization algorithm. Doing so has three important benefits. First, it helps us gain a fundamental understanding of why TCP Vegas works, and an appreciation of its limitations. Second, it allows us to prove that Vegas stabilizes at a weighted proportionally fair allocation of network capacity when there is sufficient buffering in the network. Third, it suggests how we might use explicit feedback to allow ...

20 Achieving bounded fairness for multicast and TCP traffic in the Internet

Huayan Amy Wang, Mischa Schwartz
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4
Full text available: pdf(1.85 MB)   Additional Information: full citation, abstract, references, citings, index terms

There is an urgent need for effective multicast congestion control algorithms which enable reasonably fair share of network resources between multicast and unicast TCP traffic under

the current Internet infrastructure. In this paper, we propose a quantitative definition of a type of bounded fairness between multicast and unicast best-effort traffic, termed "essentially fair". We also propose a window-based Random Listening Algorithm (RLA) for multicast congestion control. The algorithm is proven ...

Keywords: Internet, RED and drop-tail gateways, flow and congestion control, multicast, phase effect

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